

2012 drinking water quality report

INC. VILLAGE OF BAYVILLE

PUBLIC WATER SUPPLY IDENTIFICATION NO. 2902816

ANNUAL WATER SUPPLY REPORT

MAY 2013

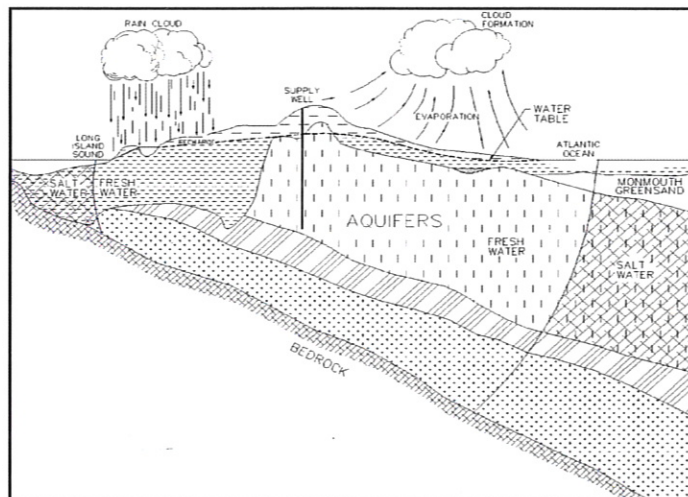
The Inc. Village of Bayville is pleased to present this year's Water Quality Report. The report is required to be delivered to all residents of our Village in compliance with Federal and State regulations. This report is designed to inform you about the quality of water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We also want you to understand the efforts we make to continually improve the water treatment process and protect our water supply. The Board of Trustees and the Village Water Department are committed to ensuring that you and your family receive the highest quality water.

SOURCE OF OUR WATER

The source of water for the Village is groundwater pumped from the three (3) wells located throughout the Village that are drilled into the Lloyd aquifer beneath Long Island, as shown on the adjacent figure. Generally, the water quality of the aquifer is good-to-excellent.

In order to ensure that our tap water is safe to drink, the State and the EPA prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The population served by the Inc. Village of Bayville during 2012 was 7,800. The total amount of water withdrawn from the aquifer in 2012 was 385.5 million gallons, of which approximately 94.4 percent was billed directly to consumers.



THE LONG ISLAND AQUIFER SYSTEM

WATER TREATMENT

The Inc. Village of Bayville provides treatment at all of its wells to improve the quality of the water pumped prior to distribution to the consumer. The pH of the pumped water is adjusted upward to reduce the corrosive action between the water and water mains and in-house plumbing by the addition of sodium hydroxide. The Village adds a slight amount of chlorine to the water as a disinfecting agent to prevent the growth of bacteria in the distribution system.

WATER QUALITY

In accordance with State regulations, the Village of Bayville routinely monitors your drinking water for numerous parameters. We test your drinking water for coliform bacteria, turbidity, inorganic contaminants, lead and copper, nitrate, volatile organic contaminants, total trihalomethanes and synthetic organic contaminants. Over 135 separate parameters are tested for in each of our wells numerous times per year. The table presented on page 3 depicts which parameters or contaminants were detected in the water supply. It should be noted that many of these parameters are naturally found in all Long Island drinking water and do not pose any adverse health effects.

WATER CONSERVATION MEASURES

The underground water system of Long Island has more than enough water for present water demands. However, saving water will ensure that our future generations will always have a safe and abundant water supply.

In 2012, the Inc. Village of Bayville continued to implement a water conservation program in order to minimize any unnecessary water use. The pumpage for 2012 was 3.0 percent more than in 2011. This can be attributed to the hotter and drier weather conditions that occurred in 2012 compared to 2011.

Residents of the Village can also implement their own water conservation measures such as retrofitting plumbing fixtures with flow restrictors, modifying automatic lawn sprinklers to include rainsensors, repairing leaks in the home, installing water conservation fixtures/appliances and maintaining a daily awareness of water conservation in their personal habits. In addition, Nassau County Lawn Sprinkler Regulations are still in effect as follows:

- All water sprinkling is prohibited between 10 a.m. and 4 p.m.
- Even numbered addresses are allowed to sprinkle on even-numbered dates during the prescribed hours and odd-numbered addresses are allowed to sprinkle on odd-numbered dates during the prescribed hours.
- County law enforcement officers will assist water purveyors in enforcing the regulations through the issuance of a summons which will result in a fine.

Besides protecting our precious underground water supply, water conservation will produce a cost savings to the consumer in terms of both water and energy bills (hot water).

COST OF WATER

The Village utilizes a step billing schedule as shown in the table. The average consumer is being billed at \$1.65 per 1,000 gallons of water used.

Bi-Annual Water Rates

Consumption (gallons)	Charges
First 10,000	\$50.00 minimum
10,001 - 70,000	\$1.65/thousand gallons
70,001 - 135,000	\$2.20/thousand gallons
135,000 - 205,000	\$2.75/thousand gallons
Over 205,000	\$3.30/thousand gallons

CONTACTS FOR ADDITIONAL INFORMATION

We are pleased to report that our drinking water is safe and meets all Federal and State requirements. If you have any questions about this report or concerns about your water utility, please contact the Water Department at (516) 628-1439, ext. 19 or the Nassau County Department of Health at (516) 227-9692. We want our valued customers to be informed about our water system. If you want to learn more, please attend any of our regularly scheduled Village Board meetings. They are normally held on the second and fourth Monday of each month at 7:30 p.m. at the Village Hall.

The Inc. Village of Bayville routinely monitors for different parameters and possible contaminants in your drinking water as required by Federal and State laws. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some impurities. It's important to remember that the presence of these impurities does not necessarily pose a health risk. For more information on contamination and potential health risks, please contact the USEPA Safe Drinking Water Hotline at (800-426-4791).

Some people may be more vulnerable to disease causing microorganisms or pathogens in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk to infection by Cryptosporidium, Giardia and other microbial pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

The Inc. Village of Bayville conducts over 3,000 water quality tests throughout the year, testing for over 130 different contaminants which have been undetected in our water supply including:

Arsenic	Propachlor	Bromoacetic Acid	Dibromomethane
Cadmium	Atachlor	Dichloroacetic Acid	Trans-1,3-Dichloropropene
Chromium	Simazine	Trichloroacetic Acid	cis-1,3-Dichloropropene
Copper	Atrazine	Dibromoacetic Acid	1,1,2-Trichloroethane
Fluoride	Metolachlor	Total Haloacetic Acid	Tetrachloroethene
Lead	Metribuzin	Chloroform	1,3-Dichloropropane
Mercury	Butachlor	Bromodichloromethane	Chlorobenzene
Selenium	2,4-D	Dibromochloromethane	1,1,1,2-Tetrachloroethane
Silver	2,4,5-TP (Silvex)	Bromoform	Bromobenzene
Zinc	Dinoseb	Total Trihalomethanes	1,1,2,2-Tetrachloroethane
Color	Dalapon	Gross Alpha	1,2,3-Trichloropropane
Turbidity	Picloram	Gross Beta	2-Chlorotoluene
Odor	Dicamba	Radium 226	4-Chlorotoluene
Iron	Pentachlorophenol	Radium 228	1,2-Dichlorobenzene
Manganese	Hexachlorocyclopentadiene	Dichlorodifluoromethane	1,3-Dichlorobenzene
Ammonia	bis(2-Ethylhexyl)adipate	Chloromethane	1,4-Dichlorobenzene
Nitrite	bis(2-Ethylhexyl)phthalate	Vinyl Chloride	1,24-Trichlorobenzene
Detergents (MBAS)	Hexachlorobenzene	Bromomethane	Hexachlorobutadiene
Sulfate	Benzo(A)Pyrene	Chloroethane	1,2,3-Trichlorobenzene
Free Cyanide	Aldicarb Sulfone	Trichlorofluoromethane	Benzene
Antimony	Aldicarb sulfoxide	Chlorodifluoromethane	Toluene
Beryllium	Aldicarb	1,1-Dichloroethene	Ethylbenzene
Nickel	Total Aldicarb	Methylene Chloride	M,P-Xylene
Thallium	Oxamyl	Trans-1,2-Dichloroethene	O-Xylene
Perchlorate	Methomyl	1,1-Dichloroethane	Styrene
Lindane	3-Hydroxycarbofuran	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)
Heptachlor	Carbofuran	2,2-Dichloropropane	N-Propylbenzene
Aldrin	Carbaryl	Bromochloromethane	1,3,5-Trimethylbenzene
Heptachlor Epoxide	Glyphosate	1,1,1-Trichloroethane	Tert-Butylbenzene
Dieldrin	Diquat	Carbon Tetrachloride	1,2,4-Trimethylbenzene
Endrin	Endothall	1,1-Dichloropropene	Sec-Butylbenzene
Methoxychlor	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	4-Isopropyltoluene (P-Cumene)
Toxaphene	1,2-Dibromo-3-Chl.Propane	Trichloroethene	N-Butylbenzene
Chlordane	Dioxin	1,2-Dichloropropane	
Total PCBs	Chloroacetic Acid	Methyl Tert-Butyl Ether (MTBE)	

2012 DRINKING WATER QUALITY REPORT - TABLE OF DETECTED PARAMETERS

Contaminants	Violation (Yes/No)	Date of Sample	Level Detected (Maximum Range)	Unit Measurement	MCLG	Regulatory Limit (MCL or AL)	Likely Source of Contaminant
Inorganic Contaminants							
Copper	No	September 2011	0.03 - 0.11 ⁽¹⁾	ug/l	1.3	AL = 1.3	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	No	September 2011	ND ⁽¹⁾	mg/l	0	AL = 15	Corrosion of household plumbing systems; Erosion of natural deposits
Sodium	No	12/26/12	3.5 - 4.6	mg/l	n/a	No MCL ⁽²⁾	Naturally occurring
Chloride	No	12/26/12	3.8 - 4.4	mg/l	n/a	MCL = 250	Naturally occurring
Nitrate	No	12/26/12	0.5 - 0.7	mg/l	10	MCL = 10	Runoff from fertilizer and leaching from septic tanks and sewage
Magnesium	No	12/26/12	1.0 - 1.2	mg/l	n/a	NONE	Naturally occurring
Calcium	No	12/26/12	2.5 - 3.1	mg/l	n/a	NONE	Naturally occurring
Barium	No	12/26/12	0.003 - 0.003	mg/l	n/a	MCL = 2.0	Naturally occurring
Volatile Organic Contaminants							
None Detected	--	--	ND	--	--	--	--
Synthetic Organic Contaminants Including Pesticides and Herbicides							
None Detected	--	--	ND	--	--	--	--
Radionuclides							
Gross Alpha	No	12/29/10	0.1 - 1.1	pCi/L	--	MCL = 15	Naturally occurring
Radium 228	No	12/29/10	0.7 - 1.1	pCi/L	--	NO MCL	Naturally occurring

Definitions:

Maximum Contaminant Level (MCL)- The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible.

Maximum Contaminant Level Goal (MCLG)- The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Action Level (AL)- The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Milligrams per liter (mg/l) - Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm).

Micrograms per liter (ug/l) - Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb).

Non-Detects (ND) - Laboratory analysis indicates that the constituent is not present.

pCi/L - pico Curies per Liter is a measure of radioactivity in water.

⁽¹⁾ - During 2011, we collected and analyzed 20 samples for lead and copper. The 90% percentile level is presented in the table. The action levels for copper was not exceeded at any site tested. The action level for lead was not exceeded at any site. Resampling will be required in 2014.

⁽²⁾ - No MCL has been established for sodium. However, 20 mg/l is a recommended guideline for people on high restricted sodium diets and 270 mg/l for those on moderate sodium diets.

SOURCE WATER ASSESSMENT

The NYSDOH, with assistance from the local health department, has completed a source water assessment for this system, based on available information. Possible and actual threats to this drinking water source were evaluated. The source water assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how rapidly contaminants can move through the subsurface to the wells. The susceptibility of a water supply well to contamination is dependent upon both the presence of potential sources of contamination within the well's contributing area and the likelihood that the contaminant can travel through the environment to reach the well. The susceptibility rating is an estimate of the potential for contamination of the source water, it does not mean that the water delivered to consumers is, or will become contaminated. Please refer to section "Water Quality" for a list of the contaminants that have been detected. The source water assessments provide resource managers with additional information for protecting source waters into the future.

Our drinking water is derived from three (3) wells. The source water assessment has rated all of the wells as having a low susceptibility to industrial solvents and nitrates. The low susceptibility is primarily due to the deep depth of the wells.

A copy of the assessment, including a map of the assessment area, can be reviewed by contacting the Village Office.

PUBLIC NOTIFICATION TIER III REPORT VIOLATION

We are required to complete Monthly Operating Reports detailing the operation of the water system. The Village is required to submit these monthly records to the Nassau County Department of Health by the 10th day of the following month. The Village failed to submit these reports by the required dates in April, May, July, October and December 2012. This, therefore, constitutes a Tier III Violation of the New York State Sanitary Code. These reports have since been provided to the Health Department.

At no time was the quality of the water affected. This is just an administrative violation. Procedures are now in place at the Village to ensure that the reports are submitted on time every month.

Should you have any questions, please contact Maria Alfano-Hardy at the Village at 516-628-1439 or the Nassau County Department of Health at 516-227-9692.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools and businesses). You can do this by posting this notice in a public place or distributing copies by hand and or mail.

Copies of the Supplemental Data Package, which includes the water quality data for each of our supply wells utilized during 2012, are available at Village Hall located at 34 School Street, Bayville, New York and the local Public Library.

We, at the Inc. Village of Bayville, work around the clock to provide top quality water to every tap throughout the community. We ask that all our customers help us protect our water supply which will improve our way of life and our children's future.

INCORPORATED VILLAGE OF BAYVILLE

34 School Street
Bayville, New York 11709

Mayor

Douglas G. Watson

Trustees

Timothy Fay

Harry E. Pinkerton III

Catherine Rapelje

Paul Rupp

Alfred Staab

Peter Valsecchi, Jr.

Village Administrator

Maria Alfano-Hardy

**PRSRT STD
U.S. POSTAGE
PAID
Bayville, NY 11709
PERMIT No. 30**

**E.C.R.W.S.S.
RESIDENTIAL CUSTOMER
BAYVILLE NY 11709**